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"We had lots of dealings with the CIA. You should have seen those planes. They'd go out looking like the kind of plane the bad guy on a TV show would fly--painted black with no markings. They'd take off from Westover Air Force Base and that was the last we ever saw of them."
--Otto Koppen, former director of the MIT Aeronautics Lab and co-founder of the Helio Aircraft Co.

On October 26, the Pentagon announced that the Helio Aircraft Co. of Bedford, Mass. had been awarded a \$3,398,750 contract to supply 15 planes to the Air Force for testing. If the tests go well, the U.S. will give as many as 3,000 of the Helio planes, equipped as mini-gunships, to the South Vietnamese government.

In the late fifties and early sixties, the CIA used the Helio Courier--an amazing short take-off and landing (STOL) plane which can fly at speeds as slow as 35 mph--to build a clandestine army in Laos.

The story of the Helio Co. explains a lot about the present phase of the war--both on the battle and the home fronts--and about the military-industrial academic complex. The connections of Harvard, MIT and other local universities with the Air Force at Hanscom Field and with such Route 128 contractors as RCA, Raytheon, Sylvania, MITRE, etc. are fairly well known--but the extraordinary story of Helio and how two Cambridge professors ended up building planes for the CIA and the Air Force has not, as yet, come to light.

First let's look at the recent contract.

President Nixon's plant is to maintain American military presence in Southeast Asia with the loss of as few American lives as possible. As troops come home, the administration has increased the use of air power. As part of this strategy, the Helio mini-gunship is supposed to provide the Saigon regime (to quote a military trade journal) with an "anti-infiltration capability of its own." The Pentagon has decided to supply the South Vietnamese with this plane instead of helicopters because it is much easier to maintain.

Helio is eager to help out. It's "Stallion" model is in competition with another firm's aircraft, the Fairchild "Peacemaker." Congressman Robert Sikes of Florida recently complained about Helio on the grounds that the company is too small for a contract which might involve 3,000 planes. Despite his complaint, both Helio and Fairchild were awarded contracts to build 15 planes for test runs. Undoubtedly Helio's favorable location on the doorstep of Hanscom Field, the Air Force base that coordinates research on the air war over Laos and Cambodia, helped to obtain the initial contract.

The planes will be taken to Indochina for a flyoff this spring in the project dubbed CREDIBLE CHASE. American, Thai, and South Vietnamese pilots will participate in the tests, which are expected to take about 60 days.

The Air Force proposal for the two planes grew out of the PAVE COIN tests of various counter-guerrilla aircraft. The planes have already undergone preliminary tests. They were tested from May 18 to 21 at Eglin Air Force Base in Florida (just after Mayday) and from June 7 to July 15 in cargo and combat (i.e. bombing and strafing) maneuvers in Thailand and over the Ho Chi Minh Trail. Before the planes were tested the Air Force installed side-firing mini-guns, strengthened wing joints for bomb attachment, and added a radio and gunsight for the standard Stallion.

Lynn Bollinger, co-founder of the Helio Corporation, is reluctant to discuss the recent contract. The terms of the contract, he says, only allow him to state that Helio received a 3.4 million dollar contract to build 15 planes for the Air Force. During our first interview, he said that to his knowledge the only arms his planes had ever carried were the "45's strapped to the pilot's hip." In a second interview, after the congressional hearings had been released, Bollinger said that "I learned as much as you did from those hearings." This is surprising: the Air Force obtained passports and paid the way to Thailand for a Helio pilot and an engineer for the test last summer, and since Helio now has a field representative on full time duty at Eglin Air Force Base where the Air Force is readying the planes for the spring tests.

From the U.S. point of view, the Helio plane has the advantage that it forces the South Vietmanese to fight on U.S. terms. The armed STOL plane is perfect for this role not only because it is a relatively cheap and "low profile" weapon, but also because It is useful only when integrated into the U.S. command control structure.

This new force is not Intended to replace U.S. air power, just to supplement it. In his news conference of November 13, President Nixon said, "Well, air power of course, as far as our use of It is concerned, will continue longer than our ground forces, due to the fact that training Vietnamese to handle aircraft takes the longest lead time and we will continue to use it until there is a negotiated settlement..." The Vietnamese aren't to be supplied with sophisticated jet bombers. Apart from the questions of maintenance and training, such a step would place too much power In Saigon's hands, by allowing them to carry on an independent military strategy - for example, bombing the North at their own initiative.

to targets. The planes will be stall or spin. equipped with special night Observation devices to help them attack men and trucks at night. They will be armed with three' barrel 20 mm rapid-fire gattling guns, 2.75 inch rockets and several new types of bombs, including TV bombs, laser bombs, and bombs which home in on a truck's ignition system.

The history of the Helio Company reveals much about the close relations between the Boston academic community and the local military Industrial complex. The universities provided the skills and inspiration which gulded the development of the first STOL

This is not to say that the prepared for a leading aircraft converted Stallion will not be a manufacturer on the entire small deadly weapon. Recent advances plane business just after WW II. in military technology pioneered. At the time, Bollinger, was on the in the Boston area, have made staff of the Harvard Business light planes into formidable war School as an expert in production machines. The planes will be and management in the aircraft integrated into U.S. Air Force industry. The study contained target selection and guidance suggestions for the sort of plane network. This system uses that would be required for elaborate eletronics to keep Laos personal use. It would be a plane and Cambodia under constant that could take off and land in a surveillance and to guide planes short distance and would not

> During the study he met Otto C. Koppen, who since 1929 had been in charge of all MIT's aeronautics design courses and who was then director of the Aeronautics Lab at MiT. The two materials needed for the planes. men became friends and Koppen decided to design the plane. When they failed to peddle the design to existing aircraft manufacturers. the two professors decided to produce the plane themselves. They took their own savings, interested some of their friends, and founded Helio. They rented a hanger in Norwood and put together the first plane. Business was opened with appropriate hoopla. One of the first

followed shortly by takeoifs and landings on the banks of the Charles. Boilinger few the plane to work, landing in the parking lot behind the Harvard Business School: At one time the Cambridge City Council seriously considered setting up small commuter air strips at strategic points about the city to utilize the planes.

This admirable display of intellectural enterpreneurship and business acumen was not followed by financial success.

Just as the company was preparing to enter the civilian market, the Korean war began and Helio was unable to obtain According to Koppen, the pair sought support from the military, and designed the Helio Courier with military specifications in mind. After the war, the air commuter idea never caught on and sales were slow. Bollinger's energetic efforts to convince the aircraft industry that STOL was a wave of the future earned him the reputation as being 'something of a crackpot." He once told a Business Week reporter, "When I spoke from The concept of STOL grow out public flights of the plane was reporter, "When I spoke from a ARBOTY CLARE BOTTER 2001111108 MOIA ROPS 0-0114934000400000000-2t. tall. Now

Approved For Release 2001/11/08 instead of the sure prestige of "I'm not saying they weren't CIA Harvard, I find people saying that planes," he explained, "but I'm I'm a crackpot."

Luckily for Helio there was one customer with a need for the

STOL capability.

In the mid 1950's, the Central Intelligence Agency forsaw a need for this type of plane. Eisenhower policymakers decided that if the U.S. were to retain a foothold deep within Laos, it would have to work with the hill tribes, bring them food and weapons in the face of Pathet Lao opposition. The majority of the potentially friendly tribes such as the Meo lived along the then inaccessible ridgelines of the mountains.

The CIA lent support to the ailing company and bought a small fleet of Helio Couriers. The planes were ideal for the CIA purposes because they flew slow enough to drop accurately the supplies necessary to construct a "small landing strip. Once the strip was cleared, the Helio plane could land. Over thirty such runways were built throughout Laos. The planes brought in U.S. advisers -- Special Forces officers under CIA direction -- who organized and trained the Meos to fight with modern weapons. (This involvement proved to be diasaterous for the Meo, whose army was smashed by the Pathet Lao and the North Vietnamese.)

Bollinger explained in our interview that he had served as a Kennedy advisor on small business investment in Asia. He admitted that he had visited Laos in 1961 on a matter which he did not wish to specify.

CIA activity in Laos is now a matter of public record. The bases in Laos that were established with the help of this plane have been the backbone of the CIA controlled Armee Clandestine. The Helio planes still fly throughout Laos, carrying ammunition, food, and U.S. advisors to remote mountain bases.

According to a former CIA official, the Helio plane played a similar role in building and supporting an anti-communist army in Tibet, inside of China, where during the early 1960's the CIA organized and supported a force of 40,000 men.

Bollinger said that he was in Katmandu, Nepal in 1964 and saw a couple of Helios and other of foreign versions of STOL aircraft.

foreign versions of STOL aircraft.

and lives on Cane Cod where we used by LEAA in evaluating

not saying there were. I did hear something vague about an airlift."

The CIA thought so highly of Helio that the Air America maintenance facility in Taiwan are tooled to produce every spare part in the plane. In fact, the shops are able to produce a completely new Helio courier.

Interestingly, the plant is pperated in secret, and does not remit royalties to Helio.

: Understandably Bollinger was subject. "How did you find that aut? he asked. "We get hot under the collar about these things. We would like to get this. You can imagine how we

The CIA requested Bollinger and Koppen to design and build a twin engine plane with the same slow flight and short takeoff as the Helio Courier. This twin the Army staff in Peru, it landed in a small football field in the dropped below the buildings, fire engines raced across the city to put out the fire from the expected crash. They arrived in time to see the Chief of Staff of the Peruvian Army waving as he climbed out of the plane. These twins, called the U-5, have been sold only to the CIAL They have been involved in clandestine operations in all parts of the world.

dislikes Bollinger also discussing the company's CIA connection. When asked directly whether or not reports that the CIA was using his planes were correct, he said only that the "stories have the ring of truth about them" but that he really couldn't confirm them. During our first interview he denied that the company had ever produced the twin engine plane, but later he said that they had in fact produced a limited number of the planes for a Government customer. He declined to identify the Government agency.

Koppen, as the opening quote illustrates, is much more forthright. He recalled that the CIA had been a major Helio customer and that he did design the U-5 at

and lives on Cape Cod where we reached him by phone.

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The Air Force and army have helicopters also used Helio planes, which helicopters and STOLs for difthey designate as U-10. Pen-ferent size jurisdictions and tagon purchases have accounted police purposes. for over a third of Helib's sales since 1960. The planes, some of civilian to military business, but which are specially modified, that the market simply doesn't have been used for forward air exist. Bollinger said that it would control and general purpose be a "travesty" for a company that the Air Force has fitted the turn down such contracts, since plane for psychological warfare another, larger weapons maker by mounting speakers and flare would pick up the business.

bit agitated at discussion of this plane is the Jungle Air Radio planes have been used for Service of northwestern South military work and by the CIA. He America. According to Bollinger, said, "I'm just interested in the their fleet of 25 planes (5 on loan technical side of things." from the Peruvian Air Force) is some hard information about used to break up "tribal clashes" between the Auca Indians (the technology is criticised by the name means "killer", he explained) and to fly police and medicine into the heartlands of they present a problem for those fanles, government officials and "new priorities." engine plane was spectacular for chissionaries have used the Helio its size. During an exhibition for planes for work in remote areas capacity of the U.S. is nothing all about the world.

middle of Lima. When the plane appeared, prospects for Helio are shaped by the universities were bleak. When the company and industrial research labs. The Venture last year, Bollinger are shaped by the market and natired to become a Senior the Federal grant system, both management of the new con-

> branches, which employ blue tary than to anyone else. collar labor, are elsewhere. The In the absence of Pentagon or and the planes are assembled in provide the high paying, high Pittsburg, Kansas.

has begun to open up.

Safety Department in Florida is mare this system has created. testing STOL planes for the Federal Law Enforcement Assistance Administration (LEAA). They purchased a plane from Helio last year. The Cornell Aeronautical Laboratory is evaruating the plane and will

of or

The company says it prefers transports. In an interview with "bona fide public interest Bollinger himself acknowledged objectives," such as his own, to

Koppen doesn't Another major user of the himself over the fact that his

These excuses are common whenever corporate anti-war or ecology movement. To the extent that they are real, Columbia, Peru, Bolivia, and who wish to go beyond moral icuador. Mining and oil com-condemnations or glib talk about

The vaunted technological more that the sum of the skills of Until the recent contract its trained manpower. The skills st \$2,000,000 on a commercial priorities of these institutions desearch Associate at MIT. The unresponsive to public needs. The system has operated to tract, and the prospect of a much create a pool of talent which can larger one on the horizon has meet the needs of the military brought him to help his old firm, and the favored glamour in-Like many of the Route 128 dustries, but not the needs of the companies, Helio's local branch majority of the people. It's no is only the research and surprise that the plane launched development division of a larger by two professors turned out to operation. The production be much more useful to the mili-

engine is produced in Canada, CIA money, it is impossible to prestige jobs to which these men Lately, a new domestic market and women have become accustomed. This is a tragedy for Law enforcement officials are the American people, but it is a beginning to eye the plane for catastrophe for the people of counterinsurgency work at Indochina who live and die daily home. The Dade County Public under the technological night-

grants to procure STOL aircraft,